

THE RAMTOP

NOV/DEC

1986

PUBLISHED BY THE
GREATER CLEVELAND SINCLAIR USERS GROUP



MERRY CHRISTMAS RAMTOP READERS

THE ABOVE PICTURE WAS DONATED TO US BY DAVE VENABLES FROM ENGLAND! THANKS DAVE!!

WEST SIDE GROUP MEETS AT LAKEWOOD PUBLIC LIBRARY
15425 DETROIT AVE. LAKEWOOD OHIO 7:00 P.M.
EVERY THIRD FRIDAY EACH MONTH
CONTACT: DICK SIEG (216) 433-4387

EAST SIDE GROUP MEETS AT THE EUCLID SQUARE MALL
IN THE EUCLIDIAN ROOM 7:30 P.M.
EVERY FIRST FRIDAY EACH MONTH
CONTACT: MAX SCHOENFELD (216) 371-1096

Dont forget AUCTION
and CHRISTMAS PARTY
DEC. 5 EAST SIDE
MEETING !!!!!!!!!!!!!

A short note to our friends from other newsletters and magazines. You are welcome to use any of our material, news, ads, or programs if
YOU: (1) Tell where it came from (RAMTOP Cleveland, Ohio) and (2) The author's name that wrote the article. We would appreciate it if
you would send us a copy of the newsletter that it appeared in! Unless otherwise notified we will do the same.

THANK YOU FOR YOUR INTEREST IN OUR NEWSLETTER !

THE TSU-BBS IS ALIVE
SYSOP:Chris Raynak PHONE:216-327-1099 PARAMETERS:8/1/N

 AMSTRAD-SINCLAIR-TIMEX RESOURCES

 news/rumors
 hardware software literature

 Dec. 1986 by Andy Kosiorek

COMMUNICATIONS:

We were pleased to have as a guest speaker at our October East Side meeting, Mr. Thomas A. Brundner, System Administrator and "instigator" of the now famous "Cleveland Free-Net" community computer system. Tom gave an excellent presentation and I hope sparked interest and encouragement in all to use and/or acquire a modem for their computer system.

For those who are not familiar with Cleveland Free-Net it can be best described as a local FREE "Compuserve" or "The Source" type of multi-user BBS system. The system has the capability of 15 users accessing it at one time. At the present time the system runs a little slow when there are a large number of users on line. This is a software problem which will be corrected, I hope, by the time this newsletter reaches you.

The Free-Net menu tree at present has nine main sections:

1. What's New
2. The Administrative Bldg.
3. The Government House
4. Public Square
5. University Circle
6. The Post Office
7. The Hospital
8. The Schoolhouse
9. The Courthouse

The main sections have from three to 12 sub-sections, and many of the sub-sections have multiple parts. Our Club is proud to have a Timex/Sinclair SIG on the system. We can be found in the Public Square section, at sub-section 5,-4,-7. At present there are eight computer SIGs on the system. Currently there are about fifty-five sysops or assistants devoting energy to making this electronic city hummm.

To access Cleveland Free-Net, call area code 216, 368-3888, 24 hours, 300 or 1200 baud.

On line you will find complete information for registering and receiving a password and ID.

When you call on us at our SIG, be sure to register, item 7 in the SIG menu.

 A-S-T RESOURCES, continued

 news/rumors
 hardware software literature

 Dec. 1986 by Andy Kosiorek

The "TSU-BBS":

Our Club BBS, The "TSU-BBS" operated by SYSOP Chris Raynak becomes better and better every week. The current version of BBS software provides a very user friendly full feature system. You can register on line. Along with the usual message base, the system provide upload and download capability for 2060 and QL programs.

To access the system, call area code 216-327-1099.
 Parameters: 8-1-N

Other Timex/Sinclair BBS's.

If your budget will allow, here are the numbers of other T/S BBS's around the USA that have T/S program downloads.

Average Remote 213-325-0213
 L.A. Calif. 8-1-N

Bill's Obsession. 404-377-2550
 Atlanta, GA. 8-1-N

FWKUG 817-540-4183
 Ft. Worth, Texas 8-1-N

Night Owl 312-459-5721
 Chicago, Ill. 8-1-N

Owego Free Acad. 607-754-3420
 Owego, N.Y. 8-1-N

Serial Port 313-286-0145
 Ann Arbor, Mich. 8-1-N

StarText 817-877-1041
 Ft. Worth Texas 8-1-N

Timexchange 213-329-3922
 L.A. Calif. 8-1-0

TSU-BBS 216-327-1099
 Cleveland, O. 7-1-N

COMPUSERVE:

Purchase of starter kit required
 Local numbers thru-out the US
 and Canada. For the TIMEX SIG
 "go Club" at any prompt.
 (Probably the largest Timex and
 QL message base in the US. Many
 downloads also. Upload time
 free.)

 CLUB MEETING NOTES:

Dec. 5 th. - annual Holiday
 Party and AUCTION! bring cash..

Feb. 6 th 1987
 Guest Speaker- Jeff Moore,
 Editor of SYNCWARE NEWS, a bi-
 monthly national T/S newsletter.

WE ARE STILL TRYING TO PUT TOGETHER A GROUP ORDER FOR QL'S TO GET A DISCOUNT ON THE QL KITS. AT THIS TIME THEY WILL COST ABOUT \$109. IN QUANTITIES OVER 20. BETWEEN 10-20 IT IS \$119. EACH PLUS SHIPPING. THEY HAVE A 90 DAY GUARANTEE. ASSEMBLY IS OF THE PLUG IN, ATTACH TYPE. IF YOU ARE INTERESTED SEND YOUR NAME AND TELEPHONE # TO THOMAS SIMON, 615 SCHOOL AVE., CUYAHOGA FALLS, OHIO 44221. I WOULD LIKE TO MAKE DECEMBER 1 THE CUTOFF DATE. THE MONEY WILL HAVE TO BE COLLECTED THAT WEEK, PERHAPS AT THE DECEMBER MEETING.

TED KNYSZEK RECIEVED SOME INFORMATION ON THE DATA-SKIP VIDEOFACE DIGITIZER. IT IS CLAIMED TO WORK ON NTSC AS WELL AS PAL VIDEO STANDARDS AND WILL DIGITIZE SIGNALS FROM VCRS, TV CAMERAS, TV TUNERS OR OTHER COMPUTERS. THE COST IS \$69. OR THE EQUIVALENT OF 200 HOLLAND GUILDERS. YOU CAN WRITE DATA-SKIP, L. WILLEMSTEEG 12, 2801 WC GOUDA, HOLLAND. THEIR TELEPHONE # IS 1820-20581. REMEMBER IT IS CONFIGURED FOR THE SPECTRUM SO THAT YOU WILL NEED A SPECTRUM BUS ADAPTER ALSO TO USE THIS PIECE OF HARDWARE.

THE LAST TWO ISSUES (OCT,NOV) OF ZX COMPUTING HAVE FEATURED ARTICLES ON NETWORKING THE SPECTRUM WITH THE QL. YOU MAY WANT TO GET THESE ISSUES IF YOU WANT TO USE YOUR 2068 AND QL TOGETHER. CHRIS RAYNAK HAS SUCCESSFULLY NETWORKED HIS PC JR. WITH HIS QL AND BELIEVES THAT IT CAN EASILY BE DONE WITH THE ATARI AS WELL. THIS SHOULD MAKE THE QL A LITTLE MORE DESIRABLE SINCE PROGRAMS RUNNING ON OTHER MACHINES CAN BE SENT TO IT AND RUN WITH MORE OR LESS MODIFICATION.

IAN ROBERTSON OF THE TORONTO SINCLAIR USERS GROUP REPORTS THAT A UK FIRM, MICRO CONTROL SYSTEMS LTD.,ELECTRON HOUSE, BRIDGE STREET, SANDIACRE, NOTTINGHAM, N620 5BA, IS OFFERING A QL COMBINATION DISK /PRINTER INTERFACE WITH ZERO RAM FOR 99.00. THEY ALSO HAVE 256K AND 512K VERSIONS OF THE SAME. AT THIS TIME IAN IS NOT SURE IF THE ZERO RAM VERSION CAN BE UPGRADED.

BRIAN LEWIS HAS A HARWARE FIX FOR THE QL 50 CYCLE BOUNCE THAT IS EVIDENT IN THE MONITOR MODE WHICH HOPEFULLY WILL APPEAR IN THE RAMTOP. HE ALSO TELLS ME THAT SHARPS HAS AVAILABLE A FEW OF THE QL MONITORS. THESE ARE IN SHORT SUPPLY AND AN EXCELLENT MONITOR. SHARP'S IS AT RT.10, BOX 459, MECHANICSCILLE, VA 23111, TEL.# 804-746-1664.

NOVELSOFT HAS ISSUED A NEW PROGRAM CALLED THE WORX, WHICH IS A RATHER ECCLECTIC GROUP OF PROGRAMS THAT ARE SWITCHED IN AND OUT. IT HAS A NOTEBOOK, A PLANNER, BIOPYTHEMS, CALCULATOR, CLOCK, WORLD TIME MAP AMONG OTHER FEATURES. THE PROGRAM PERFORMS BEST WITH INTERACTIVE STORAGE DEVICES. THE PROGRAM HAS A FEATURE TO CUSTOMIZE IT TO THE PARTICULAR DEVICE THAT IS BEING USED. IT IS AVAILABLE THROUGH E.A. BROWN, 3404 PAWNEE DRIVE, ALEXANDRIA, MN, 53603 OR NOVELSOFT. ALSO NOVELSOFT MENTIONED THAT THE PROGRAM TIMEMACHINE IS BEING MARKETED IN THE U.K. BY HISOFT UNDER THE NAME OF THE BASIC COMPILER. NOVELSOFT HAS THE NORTH AMERICAN RIGHTS TO THIS PROGRAM SO DON'T SEND TO ENGLAND FOR THIS EXCELLENT HOMEGROWN PROGRAM.

GREY AND CLIFFORD COMPUTER PRODUCTS NOW HAVE QUITE A FEW NEW ITEMS AVAILABLE. THEY HAVE FINISHED THE SPECTERM-64 WHICH IS A SPECTRUM 64 COLUMN TERMINAL PROGRAM THAT WILL RUN WITH THE 2050 MODEM OR A 1200 BAUD MODEM ON A 2068 IN SPECTRUM EMULATION. COST IS \$30.+\$2. S&H. A 2068 VERSION IS PLANNED. THEY ALSO HAVE A Z-SI/O INTERFACE WHICH SUPPORTS 3 BAUD RATES 300,1200 AND 19200 THROUGH SOFTWARE CONTROL AND A STANDARD RS-232 DB-25 CONNECTOR. THIS CARD PLUGS DIRECTLY INTO A STANDARD OLIGER EXPANSION BOARD. TWO VERSIONS OF THIS ARE AVAILABLE, STANDARD AND JLD DRIVE COMPATIBLE. COST IS \$79.+\$3.50 S&H. THEY HAVE THE AVITEX 300/1200 BAUD MODEM FOR \$109.+\$3.50 S&H. THE 2050 MODEM CARDS ARE AVAILABLE IN PACKS OF 5 FOR \$15.+\$2.50 FOR S&H. CALL OR WRITE THEM AT P.O. BOX #2186, INGLEWOOD, CALIFORNIA,90305, TELEPHONE #'S 213-759-7406 OR 516-6648.

IN THE SEPTEMBER RAMTOP THERE WAS A MENTION OF THE TAPE MAGAZINE "BYTE POWER" PUBLISHED BY ERIC AND KRISTIAN BOISVERT. IT QUITE A LONG TAPE WITH A LOT OF GAMES, ROUTINES AND UTILITIES ON IT. IT IS PUBLISHED AT \$5.50 (US) PER ISSUE OR 6 MONTHS FOR \$29.99. THEY ALSO WILL PAY FOR PROGRAMS. WRITE TO THEM AT BYTE POWER, 1748 MEADOWVIEW AVE, PICKERING, ONTARIO, CANADA L7V 3B8.

THE TSU BBS HAS BEEN GETTING QUITE A FEW OUT OF STATE TIMEX USERS. IF YOU WOULD LIKE TO NETWORK WITH SOME OF THESE USERS ACROSS THE COUNTRY CALL UP CHRIS AND LEAVE A MESSAGE. THE BBS WILL BE ONLY AS GOOD AS WE MAKE IT. WHILE ON THE SUBJECT OR TELECOMMUNICATIONS HERE IS THE NUMBER OF ONE OF THE NEWER TIMEX BBS SYSTEMS NOW ON-LINE, THE 1STUG, 24 HRS., 7-1-E,1-317-898-3903. SOME INTERESTING NON TIMEX BOARDS ARE AS FOLLOWS: PHOTOCOMM AT 415-762-5615 (INFORMATION FOR PROFESSIONAL & AMATEUR PHOTOGRAPHERS), INVENTORS & AUTHORS BBS AT 817-430-3760 (PATENT & COPYWRITE INFO), THE COLLECTORS NET AT 213-204-0646 (EXCHANGE FOR ALL SORTS OF COLLECTORS), PICKHAM'S PHONE CENTER AT 213-613-0031 (OFFERS POINT SPREADS ON FOOTBALL GAMES) AND THE UFO NETWORK AT 206-722-5738 (ABOUT UFO SIGHTINGS!).

ANOTHER PROJECT: HOW ABOUT ALL OF OUR READERS SENDING THE NAMES OF PROGRAMS THAT DO NOT WORK WITH THE 2068 WITH THE SPECTRUM EMULATOR, ROM OR ROMSWITCH AND AFTER A MONTH OR TWO, WE'LL PRINT THE LIST OF PROGRAMS THAT WILL NOT WORK. THIS COULD SAVE A LOT OF GRIEF SINCE SOME SOFTWARE WILL NOT RUN PERIOD. ALTHOUGH THERE IS A LOT OF SOFTWARE OUT THERE FROM ENGLAND THAT IS POORLY RECORDED OR ON TIJUANNA TAPE SPECIAL REJECT CASSETTES, WE WANT TO KNOW ABOUT THE ONES THAT ARE HARDWARE INCOMPATIBLE. LET US HERE FROM YOU ON THIS!

By TOM SIMON

I want to take a few lines to here to THANK ALL OF YOU for the FINE articles and programs that you have sent in this year!!! Our RAMTOP is one of the best publications of its kind and it's all due to YOU!!! So feel free to pat yourself on the back!!! We will be back on a monthly schedule in January. We hope to continue to GROW in 1987!!! THANKS AGAIN----- James G. DuPuy, Editor

```

2 REM -----
5 REM - PERPETUAL PRINTING CALENDAR TS-2068
10 REM - WITH FORMATTED HEADER FOR 80 COL. PRINTER
25 REM - WRITTEN BY: FRED KEMPLER
30 REM - MODIFIED FOR TS-BASIC BY: TED KNYSZEK
35 REM -----
50 CLEAR 64718: LOAD "CODE": REM LOAD YOUR OWN PRINT DRIVER
50 RANDOMIZE USR 64719: RUN 70
70 DEF FN L$(A$,X)=A$( TO X)
90 LET PRFLAG=0
90 DEF FN M$(A$,X,Y)=A$(X TO (X+Y)-1)
90 LET A$=""
90 DIM P$(25,66): DIM Y(4): DIM A(12): DIM C$(4,65): DIM H$(25
5): DIM M$(25,65)
20 CLS: PRINT TAB 7;"PERPETUAL CALANDER": PRINT: RESTORE
30 PRINT
40 FOR I=1 TO 12
50 READ A(I)
60 NEXT I
70 READ B$
80 FOR I=1 TO 4
90 READ C$(I)
200 NEXT I
210 READ D$
220 READ E$
230 INPUT "ENTER YEAR";Y$
240 LET Y=VAL (Y$)
250 LET M1=1
260 FOR I=1 TO 4
270 LET Y(I)=VAL Y$(I)
280 NEXT I
290 GO SUB 710
300 PRINT "ENTER NAME: ";: REM INPUT ANY NUMBER OF CHARACTERS
  UP TO 255
310 INPUT J$: PRINT J$
320 GO SUB 550
330 PRINT "FORMULATING CALANDER"
340 GO SUB 980
350 PRINT "FORMATTING NAME"
360 GO SUB 630
370 GO SUB 780
380 PRINT "PRINTING CALANDER"
390 GO SUB 1340
400 STOP
410 DATA 31,28,31,30,31,30,31,31,30,31,30,31
420 DATA "SU MO TU WE TH FR SA" "SU MO TU WE TH FR SA" "SU MO TU
WE TH FR SA"
430 DATA "JANUARY" "FEBRUARY"
440 DATA "APRIL" "MAY"
450 DATA "JULY" "AUGUST"
460 DATA "OCTOBER" "NOVEMBER"
470 DATA "1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
19 20 21 22 23 24 25 26 27 28 29 30 31"
480 DATA "
500 DATA "11101011111110111111111111111111"
510 DATA "101110001001101100100001101101"
520 DATA "10101011101111111111110011111111"
530 DATA "101010100001001001101001101001"
540 DATA "11111111111001111111001111111111"
550 INPUT "HARDCOPY? (Y/N)";X$
560 IF X$="Y" OR X$="y" THEN GO TO 570
565 GO TO 620
570 LET PRFLAG=1
580 PRINT "PLEASE READY PRINTER"
620 RETURN
630 REM -----EXTEND NAME-----
640 LET X=LEN (J$)+1
650 LET X=INT (255/X)
660 LET O$=""
670 FOR I=1 TO X
680 LET O$=O$+J$+"-"
690 NEXT I
700 RETURN

710>REM -----FORMAT HEADER-----
720 FOR I=1 TO 5: LET G$=""
730 READ F$
740 FOR J=1 TO 4
750 LET G$=G$+FN M$(F$(Y(J)*3)+1,3)
760 NEXT J: LET H$(I)=G$: NEXT I
770 RETURN
780 REM -----FORMAT NAME-----
790 FOR I=1 TO 5
800 FOR J=1 TO 5
810 LET Q=((I-1)*5)+J
820 LET G$=""
830 PRINT 26-Q;"-";
840 FOR K=1 TO 12
850 LET P=(K-1)*5
860 IF H$(I,K)="" THEN GO TO 890
870 LET G$=G$+FN M$(O$,Q+P,5)
880 GO TO 900
890 LET G$=G$+" "
900 NEXT K
910 LET T$=""
920 FOR L=1 TO 4
930 LET T$=T$+FN M$(G$((L-1)*15)+1,15)+" "
940 NEXT L
950 LET P$(Q)=T$
960 NEXT J: NEXT I
970 RETURN
980 REM -----FORMULATE CALENDAR-----
990 LET L1=-6
1000 FOR I=1 TO 10 STEP 3
1010 LET L1=L1+6
1015 LET R$="": LET S$="": LET T$="": LET U$="": LET V$="": LET
W$=""
1020 FOR J=1 TO I+2
1060 LET M=M1
1070 LET D=A(M)+(1-SGN (Y/4-INT (Y/4)))*(1-ABS (SGN (M-2)))
1080 LET L=0
1090 LET Y1=Y
1100 IF M>2 THEN GO TO 1130
1110 LET M=M+12
1120 LET Y1=Y-1
1130 LET M=M+1
1140 LET Z=INT (365.25*Y1)+INT (30.6*M)-1
1150 LET Z=Z-7*INT (Z/7)
1160 LET M=M1
1170 LET K$=FN L$(E$,3*Z)+D$
1180 LET R$=R$+" "+FN M$(K$,1,21)
1190 LET L=L-7-Z
1200 LET L0=1
1210 LET A1=0
1215 GO SUB 1331
1225 LET S$=S$+" "+X$: GO SUB 1331
1230 LET T$=T$+" "+X$: GO SUB 1331
1235 LET U$=U$+" "+X$: IF A<D THEN GO SUB 1331: GO TO 1240
1237 IF A=D OR A>D THEN LET V$=V$+" "+A$: GO TO 1245
1240 LET V$=V$+" "+X$: IF A<D THEN GO SUB 1331: LET W$=W$+" "+X
$: GO TO 1270
1245 LET W$=W$+" "+A$
1270 LET M1=M1+1
1280 NEXT J
1285 LET N$(1+L1)=R$
1286 LET N$(2+L1)=S$
1287 LET N$(3+L1)=T$
1288 LET N$(4+L1)=U$
1289 LET N$(5+L1)=V$
1290 LET N$(6+L1)=W$
1320 NEXT I
1330 RETURN
1331 LET L0=L0+1
1332 LET A=(L+7+D-ABS (L+7-D))/2
1333 LET X$=(FN M$(D$,3*L+1,(3*(A-A1)))+E$)
1334 LET X$=FN L$(X$,21)
1335 LET L=L+7
1336 LET A1=A
1337 RETURN

```

1340>REM -----PRINT CALENDAR-----

DRIVEL is an absurd program that generates nonsense literature (or poetry or whatever) that phonetically and catching it - stylistically resembles any great author user may desire to make such an electronic mockery of. We have included listings for both the QL and the 2068 with modification it runs perfectly well on the ZX-81 as well as output listings and these instructions (instructions?) :

How to use the DRIVEL program:

After the program is loaded and running, it will ask you to type the source text. At this point you are to enter literally anything (IE. great literature, reports, poems.) just typing it in. There is no text editor as all input is fetched using the INKEY\$ function. This approach may seem crude, but it is functional. (Of course, it can be improved.) To exit the input routine, type "ESC" for the QL and "Q" for the 2068. Incidentally, the "Q" should be avoided if it occurs in the source text as it will simply end the input session. The program will then query "START

```
CLS:CLS#0:CLS#2
Z$=""
PRINT 'PLEASE ENTER SOURCE TEXT:'
REPEAT LOOP
  I$=INKEY$(#1,-1)
  IF I$=CHR$(27) THEN EXIT LOOP
  Z$=Z$&I$
  PRINT I$;
END REPEAT LOOP
L=LEN(Z$)
INPUT"\\\\" "START PHRASE ? ";S$
LS=LEN (S$)
88 CLS:PRINT S$;
90 REPEAT LOOP
  12 DIM A(127)
  14 FOR F=1 TO L-LS
    16 IF Z$(F TO F+LS-1)=S$ THEN TAB
  18 END FOR F
  20 BEEP 10,10
  22 SUM=1E-6
  24 FOR F1=10 TO 127
    26 IF A(F1)>1 THEN SUM=SUM+1
  28 END FOR F1
  30 RN=50
  32 FOR J=10 TO 127
    34 RN=RN-((A(J)/SUM)*(RND(1 TO 6)))
    36 IF RN<0 THEN WRITE:END REPEAT LOOP
  38 END FOR J
  40 END REPEAT LOOP
100 DEFINE PROCEDURE TAB
102 L$=Z$(F+LS)
104 LI=CODE(L$)
114 A(LI)=A(LI)+50
116 END DEFINE
200 DEFINE PROCEDURE WRITE
202 P$=CHR$(J)
216 PRINT P$;
218 S$=S$(2 TO )&P$
220 BEEP 100,10
222 END DEFINE
```

PHRASE?" You should type in a word or part of a word that occurs in the source text, followed by <ENTER>. The length of this 'start phrase' will determine the randomness of the text to be generated. A short phrase (2 or 3 letters) will produce very random text whereas a long phrase (6 to 10 letters) will produce text almost identical to the source text (boring.) I have found that the ideal length is 4 letters. If you want to begin with a word that is longer than 4 letters, just type in the first four. Of course you should experiment to decide for yourself what you like best.

You will notice that DRIVEL is a painfully slow program. Interestingly enough, with small source text (1 or 2 paragraphs) the QL and 2068 run at almost the same speed. Unfortunately, this speed is somewhat of a snails pace. Inspecting the program listing, you will notice that DRIVEL generates while generating output text. It can be modified to generate the needed statistics all at one time before the output stage (thus increasing the speed several hundred times) but this requires rather incredible amounts of memory. Fourth order text (a four letter start phrase) would consume more than the entire memory available on a stock 2068, but is within the range of 128K machine. If anyone would like to attempt to write such a program, feel free to contact me for more information. Brian Lewis.

```
1 CLS
2 LET Z$=""
3 PRINT "PLEASE ENTER SOURCE TEXT:"
6 LET I$=INKEY$:IF I$="" THEN GO TO 6
8 IF I$=CHR$(127) THEN GO TO 52
10 LET Z$=Z$+I$
12 PRINT I$;
14 GO TO 6
52 LET L=LEN(Z$)
54 INPUT#0,"START PHRASE ? ";S$
56 LET LS=LEN (S$)
58 CLS:PRINT S$;
62 DIM A(127)
64 FOR F=1 TO L-LS
66 IF Z$(F TO F+LS-1)=S$ THEN
68 NEXT F
72 LET SUM=1E-6
74 FOR X=10 TO 127
76 IF A(X)>1 THEN LET SUM=SUM+1
78 NEXT X
80 LET RN=50
82 FOR J=10 TO 127
84 LET RN=RN-(A(J)/SUM)*(RND*5+1)
86 IF RN<0 THEN GO SUB 200:GO TO 62
88 NEXT J
90 GO TO 62
100 REMARK TABULATE
102 LET L$=Z$(F+LS)
104 LI=CODE(L$)
114 LET A(LI)=A(LI)+50
116 RETURN
200 REMARK WRITE
202 LET P$=CHR$(J)
216 PRINT P$;
218 LET S$=S$(2 TO )&P$
222 RETURN
```

RENUMBER

by Theo Turk
Nov. 2, 1986

FOR TS1000/1500

THE FOLLOWING IS AN ADAPTATION OF A BASIC LINE RENUMBERING PROGRAM THAT I'VE BEEN USING FOR SOME TIME. HOWEVER, IT DIFFERS WITH THE ORIGINAL BASIC PROGRAM IN TWO WAYS. (ONE) PART OF THE PROGRAM AS YOU CAN SEE IS WRITTEN IN MACHINE CODE FOR FAST SPEED. (TWO) THIS PROGRAM WILL LET YOU RENUMBER ALL OF YOUR PROGRAM LINES STARTING FROM LINE 1 to 9980 OR JUST A PORTION OF THE PROGRAM, LEAVING THE REMAINING LINES INTACT.

```

9980 PRINT AT 7.0;"ENTER FIRST LINE # TO BE MODIFIED."
9981 INPUT X
9982 POKE 16445, INT (X/256)
9983 POKE 16444, X-256*PEEK 16445
9984 PRINT "ENTER LINE # OF FIRST LINE NOT TO BE CHANGED."
9985 INPUT Y
9986 POKE 16447, INT (Y/256)
9987 POKE 16446, Y-256*PEEK 16447
9988 PRINT "ENTER INCREMENT."
9989 INPUT Z
9990 POKE 16452, Z
9991 RAND USR 32690
9992 STOP
9993 LET A$="2A3C40CDD8092240402A3E40CDD809224240ED5B44407A
      B3CA4B0D2A4040ED4B3C40702371C523E54E2346E1092323224040
      ED4B4240A7ED42E1D019223C40ED4B3E40A7ED4238D3C33508"
9994 LET W = 32690
9995 POKE W, 16*CODE A$+CODE A$(2)-476
9996 LET W = W+1
9997 LET A$ = A$(3 TO)
9998 IF A$<>"" THEN GOTO 9995
9999 RUN 9980

```

DO THE FOLLOWING STEPS.

- A. SAVE ON TAPE
- B. POKE 16388,178
- C. POKE 16389,127 ;NEW
- D. RELOAD FROM TAPE
- E. RUN 9993

THE PROGRAM WILL AUTOMATICALLY STOP IN LINE 9980 ASKING FOR THE FIRST LINE # THAT YOU WANT CHANGED - (input X). ALL OF THE FOLLOWING LINES - TO BE CHANGED - WILL BASE THEMSELVES FROM THIS LINE #.

THE COMPUTER WILL THEN ASK FOR THE FIRST LINE # THAT YOU DO NOT WANT TO BE OVER WRITTEN - (input Y) - OTHERWISE TYPE IN 9980. EVERYTHING FROM LINE "X" UP TO BUT NOT INCLUSIVE OF LINE "Y" WILL BE RENUMBERED.

FINALLY, ENTER THE INCREMENT VALUE FROM (1 to 255).

NOTES: 1.A REPORT CODE OF "5" INDICATES "INSUFFICIENT ROOM";
USE A SMALLER INCREMENTAL VALUE.

2.A REPORT CODE OF "9" INDICATES A "NORMAL RUN"; NO ERRORS

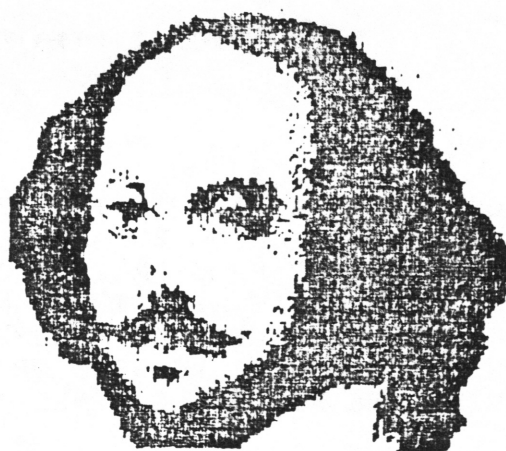
3.ALTHOUGH THE MACHINE CODE USES RELATIVE JUMPS, THE MEMORY LOCATION USED FOR STORAGE CAN BE CHANGED TO WHAT EVER YOUR NEEDS MIGHT BE. IF NECESSARY, CHANGE LINE 9991 AND 9994.

IOE

WILLIAM
SHAKESPEARE

Digitizer

By Everett Pence



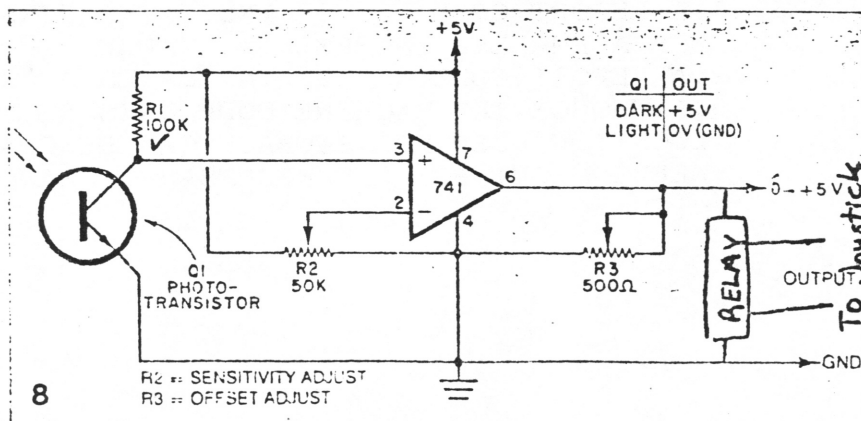
I recently decided to try something new with my plotter. Thanks to an article in Computers & Electronics by Forrest M. Mims III, I have made a circuit which allows a plotter to be used as a digitizer. With the addition of a relay, the circuit shown below can be used to digitize pictures, line drawings, and other similar items. The idea is really simple, a picture is placed on the plotter and with some adjustments for sensitivity and a short program, many different sizes of pictures can be digitized. The circuit used simply forms a switch that is sensitive to different levels of light. The phototransistor is connected by fiber-optic cable to a makeshift plotter pen. The output of the switch is connected to the joystick port of the 2068. The digitizing process takes about 1½ hours. This is due to the speed of the plotter, not the circuit or driving program. It doesn't seem too bad if you consider the fact that a full screen picture is made up of 45,000 pixels (each of which has to be checked one at a time.)

This is an example of what can be done with the digitizer.

If you have any questions or would like more details, write:

Everett Pence
564 Morningview Ave.
Akron, Oh. 44305

Fig. 10. Simple phototransistor sensor circuit.



XX

GoLumn

by Gabe Schaffer

XX

Hi, all! This month I will have a program based on a card trick I encountered in school. Complete instructions are included. But first, if you have any comments, please write to:

Gabe Schaffer
2599 Saybrook Rd.
Univ. Hts., Ohio 44118

XX

CARDS

XX

CARD:"E"

8	9	10	11
12	13	14	15
24	25	26	27
28	29	30	31

CARD:"T"

2	3	6	7
10	11	14	15
18	19	22	23
26	27	30	31

CARD:"F"

4	5	6	7
12	13	14	15
20	21	22	23
28	29	30	31

CARD:"D"

1	3	5	7
9	11	13	15
17	19	21	23
25	27	29	31

CARD:"S"

16	17	18	19
20	21	22	23
24	25	26	27
28	29	30	31

The program that belongs to these cards is the one below. The instructions are displayed when you run the program. These cards work with a simple math formula, so that if you know which cards the number is on, you can quickly tell what the number is. (Hint: If you don't already know the

formula, the program will tell you how the cards 'work'. And the "ETFOS" cards in the instructions refer to those above.) Next month I will reveal the formula if you have not already figured it out from the program.

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PROGRAM

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```

100 init
110 PRINT 'Think of a number from 1 to 31...':FOR f=1 TO 5
120 AT f,0:INPUT 'Is your number on card "':l$(f):" (Y/N)?
'li$
130 IF i$="Y" OR i$="y" THEN t=t+l(f):ELSE IF i$<>"N" AND i
$<>"n" THEN GO TO 120
140 NEXT f:PRINT '\Your number is: 't
150 RETURN
160 AT 0,0,0:INPUT #0,'Play again (Y/N)?':lp$
170 IF p$="Y" OR p$="y" THEN GO TO 320:ELSE IF p$<>"N" AND
p$<>"n" THEN GO TO 160
180 STOP
190 PRINT 'I am thinking of a number...':DIM n(5):FOR f=1 T
O 5:n(f)=RND(1):t=t+n(f)*l(f):PRINT 'My number is ':;IF n(f
) THEN PRINT 'on card "&l$(f)&".':NEXT f:ELSE PRINT 'not
on card "&l$(f)&".':NEXT f
200 IF t=0 THEN CLS:GO TO 190:ELSE AT 0,0:INPUT 'What is my
number?':li
210 IF i=t THEN AT 7,0:PRINT 'CORRECT, my number is: '&i&FI
LL$(" ",44):RETURN:ELSE AT 7,0:PRINT 'WRONG, my number is
not: '&i&FILL$(" ",22):GO TO 200
220 DEFine PROCedure init
230 WINDOW 420,160,46,0:MODE 8:CLS:PRINT TO 11;'CARDS GAME'
\TO 8:'by Gabe Schaffer'\TO 10;'INSTRUCTIONS'\
240 PRINT 'To play this game, you will need the proper "E
TFOS" cards on hand.'\At the prompt, type 1 and ENTER if
you want the computer to guess the number, or 2 and ENTER i
f you want to guess the number.'
250 PRINT '\If you typed 1, you will be told to think of a n
umber. Next, you are asked which of the five cards your n
umber is on. Type Y or N and ENTER to each of the questions.
';
260 PRINT 'The computer will tell you what the numb
er is and you will be asked if you want to play again.'
270 PRINT #0,'Press ENTER for the next page.':REPEAT i:i$=I
NKEY$:IF CODE(i$)=10 THEN EXIT i:ELSE END REPEAT i
280 CURSOR 0,32:CLS 2:PRINT 'If you typed 2, the computer w
ill think of a number and it will tell you which cards its
number is on.'
290 PRINT 'Next you will be asked what the number is. If
you are correct then you will be told that your answer is
correct and you will be asked if you want to play again. ';
300 PRINT 'Otherwise, you will be told that you are wrong an
d will be given another try.'
310 CLS#0:PRINT #0,'Press ENTER to start the game.':REPEAT
i:i$=INKEY$:IF CODE(i$)=10 THEN EXIT i:ELSE END REPEAT i
320 t=0:l$="ETFOS":DIM l(5):FOR d=0 TO 4:l(d+1)=2*d:l(1)=8:
l(4)=1
330 CLS:CLS#0:INPUT #0,'Press 1 if you want me to guess the
number, or 2 if you want to guess the number.':li$
340 CLS#0:IF i$<>'1' AND i$<>'2' THEN GO TO 330:ELSE IF i$=
'1' THEN GO SUB 110:ELSE GO SUB 190
350 GO TO 160

```

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GoLumn

by Gabe Schaffer

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Hello again. Since this is a double issue of THE RAMTOP, I will wait until Jan. to reveal the solution to the card game. Also, I should mention that programs in this column will be for TV mode only (F2 when you turn on the computer), unless noted otherwise.

Here is a review of the A+ QL kit, sent in to me by Gary Sprang:

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REVIEW

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The A+ QL Kit
as reviewed by Gary M. Sprang

Like most of you, I had heard of the QL last year. The \$300 price was low, but not quite low enough for me at the time. I also wondered about the reliability of the microdrives as compared with a disk or cassettes. I own two TS-1000s; one has a Tree Systems FORTH ROM. I also have a highly modified TS-2068 which is interfaced with an S-100 motherboard.

Two months ago, I saw the article in THE RAMTOP about A+ Computer Response offering QL kits for \$139. I am an experienced electronic tech and programmer, so I have no fear of computer kits. I called A+, and spoke with a man who was very helpful. He took my order, and told me the warranty on the QL kit was 30 days. He explained that since it was a kit, A+ could not have a very long warranty as there were more things that could go wrong, especially during assembly.

Four days later, a box appeared on my doorstep. I was already impressed. After supper, I opened the box to find the QL kit.

Included was the main circuit board (pre-assembled), the two halves of the case, the two microdrives (pre-assembled), some screws of varying description, and the documentation. There is no bundled software with the QL kit, but there are two blank microdrive cartridges. A cable and box for TV hookup are also included in the kit.

Even though I am an experienced electronic tech, I decided to be very careful and take my time with the QL kit. I found the instructions were clear, with drawings to aid in fitting things together. The most difficult part was connecting the ribbon cables from the microdrives to the main circuit board. Even though I took my time, it took only 1/2 to 3/4 hours to assemble the QL. My wife, a non-techie, remarked she could probably have assembled it!

The QL fired right up on the first try. The microdrives ran the first time I tried them out. Everything seemed, and after several weeks, still seems to be, fine.

The documentation consists of the assembly instructions, a technical description on the innards of the QL, a beginners guide to programming, a complete SuperBASIC keyword section, and a section called 'QL Concepts'. This covered several items in detail, such as RGB monitor hookup, the RS-232 ports, the expansion ports, and QDOS. The two-page section on QDOS had an EXEC program listing that demonstrates multitasking. QDOS also supports a 'BOOT' or auto-execute type program you can write to have the QL load and execute on power-up. The one I wrote asks for the time and date so it can set the QLs internal clock.

I am impressed with my QL. I have also found that Brice Road Pharmacy near Columbus has a good selection of software for the QL, including a C compiler, a Pascal package, and an assembler package. I am working on communication packages for my modem and to communicate with the computer I work with all day. I have barely touched the windowing, and the sound capabilities of the QL.

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PROGRAM

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The following program copies the whole contents of the cartridge in mdv2_ to a cartridge in mdv1_. When you run the program, insert the right cartridges in the right drives, then press space; you will be asked how many times you want the cartridge in mdv1_ formatted. Input '0' if you don't want the cartridge formatted, or the number of times you do want the cartridge formatted. The copying will begin after formatting, and then you will be asked if you want to rerun the program. This program will only work if you have at least one or two free sectors (I'm not sure which) on the cartridge in mdv2_, and copying will take a long time if there is a lot of data on the cartridge in mdv2_. (The program will work in monitor mode, but the display will be different).

```
100 MODE 8:CLS:PRINT 'Put the original cartridge in mdv2_and
    the blank one in mdv1_.'
110 PRINT #0,'Press (SPACE) when ready.'
120 REPEAT i:=INKEY$:IF i$=' ' THEN make_dir:EXIT i:ELSE E
ND REPEAT i
130 CLS:CLS#0:INPUT 'How many times do you want the cart
ridge in mdv1_ formatted? (0 if you do not want the cartridge
formatted):'i
140 IF INT(i)>>1 OR i<0 THEN GO TO 130:ELSE FOR f=1 TO i:for
mat_mdv1_
150 CLS#0:c10=0:FOR l=1 TO d:IF d$(l)=CHR$(10) THEN c10=c10+
1:IF c10=2 THEN GO TO 170
160 NEXT l
170 CLS:c1=1+1:FOR o1=c1+1 TO d
```

```

180 IF d$(ol)=CHR$(10) THEN p$=d$(cl TO ol-1):PRINT 'Copying
'&p$&'...':DELETE 'mdv1_'&p$:COPY 'mdv2_'&p$ TO 'mdv1_'&p$:
cl=ol+1
190 NEXT ol:FOR c=1 TO 2:DELETE 'mdv'&c&'_catalogue'
200 CLS:INPUT 'Do you want to rerun the program? (Y/N) 'is
210 IF is='y' OR is='Y' THEN RUN:ELSE IF is='n' OR is='N' TH
EN STOP:ELSE GO TO 200
220 DEFine PROCedure make_dir
230 DELETE mdv2_catalogue:OPEN_NEW #3,mdv2_catalogue:DIR #3,
mdv2:'d$='':OPEN_IN #3,mdv2_catalogue
240 INPUT #3,a$:d$=d$&a$&CHR$(10)
250 IF EOF(#3) THEN CLOSE#3:END DEFine
260 GO TO 240
270 DEFine PROCedure format_mdv1_
280 FOR fm=1 TO d:IF d$(fm)=CHR$(10) THEN FORMAT#0,'mdv1_'&d
$(1 TO fm-1):END DEFine
290 DEFine FuNction d
300 RETURN LEN(d$)
310 END DEFine

```

Here are the answers to
last months WORD SQUARE.

```

*****
C C C C C K F D H D M Q U V R G I Y V
P N H Y J L R E E E E E E E E E E E
Q H W E V C Z D W H Z Q B S W H O P F Z
H X L L D F E E E E E E E E E E E E E
M U M L Q R E E E E E E E E E E E E E
F F K R S I L E E E E E E E E E E E E
Z I D S I W Q D Q X I U E S E E E E E
C I S C K T X X A C I H U E P A T E E
W U L P E E E E E E E E E E E E E E
S U E I L W J C G Z O Y R E K Y U E
Y L I L E G U R D W F U H G U C E E
E E E E E E E E E E E E E E E E E E
H A E J N O L M Q Y M X P S L V H
D R A N C E C T S I D U J F B U X D
J N D M Y P K A P A T A J G U U W A
E E E E E E E E E E E E E E E E E E
U A B R U I Z O D R D U G S M O Y Z D
J R G A X N A I C P P K Y I U I D F
U U H M W R A K S E C T R M E S W
E T T E E H T B K S P R D U X M U
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Here is a NEW WORD SQUARE!

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K H M S X C D H T F E P Y N C A K P D E
P R F S F W A S C U R K E Y O O M W E I
P A M N W O R B N B F Y M C T Q U E Z I
Z P D K T W U I V U V F H O N Q C S I
S O B C U X M C L I D K B O I E Q E K H
P S M L O K G S M A P O X A A P H N D
T Y J O N A U N H A U C T I O N Z D Y G
D S U M F U G E T Z Y Z D R O U P R S H
S B B U S T W T M J V I S K Z U X A Z U
C O P T I M E X S I N C L A I R I M E C
L L E L I F U V U N R L K D U Z A U K P
W I X F E U D A Q Y L U Z Y A S N M E C
N G U C B W P K T H Z H E T T V Y R U Y
Z E U P A N E D N A L E V E L C A G C Y
P A R A L G U F E R A U G X R N X W P A B F
K P N A K N K R W E P F O D T L B U Z B
U J O U C U B J E A I M F F H B A M S U
Q H M M W E F R O L I Z O A M S T R A D
P M L H Z Y F A E S L S B I G O X T X I
C J J G E D R I S S K G F Z C X E Q G I
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THE WORDS TO LOOK FOR ARE:

- 1: TIMEXSINCLAIR
- 2: AUCTION
- 3: WORD
- 4: FREE
- 5: NET
- 6: OLIGER
- 7: ZEBRA
- 8: BROWN
- 9: AMSTRAD
- 10: CLEVELAND
- 11: TSUBBS
- 12: SYSOP
- 13: SOFTWARE
- 14: VUFILE
- 15: MASTERFILE
- 16: SINON
- 17: GABE
- 18: PENCE
- 19: KNYSZEK
- 20: GEDRIS

If you would like to subscribe to the RAMTOP please fill out this form and send it to the listed address along with a check for: \$15/Year or \$7.50/ 6 mo. to become a member of our Group (Attend meetings, use library tapes Ect.) or: \$12/Year or \$6/ 6 months to receive the RAMTOP only. Please make checks payable to the RAMTOP! (The phone # is only for our records!)

*Please print! Enclosed: \$_____ for 1 year__ / 6 months__ *

*NAME: _____ PHONE: _____ *

*STREET: _____ *

*CITY: _____ STATE: _____ ZIP: _____ *

*Type of computer(s) and peripheral(s) you own: _____ *

THANK YOU for your interest! Please send to:

*Robert Parish, 12706 Leeila Ave., Cleveland, OH 44135 *

Some examples of DIVEL output:

(1) Based on Shakespeare running on a 2068

TOUCH IT.

AS GAMING, MY LORD. YOU MAY DISHONOR HIM, BUT IF'D HE BE MEANS AND AT WHAT COMPASSMENT AND AT WHAT COMPANY AND FINDING BY THIS ENCOMPANY AND DRIFT OF QUESTION THAT THEY KEEP. WHAT COMPANY AND FINDING BY THIS ENCOMPANY AND DRIFT OF QUESTION THAT THEY DO KNOW MY SON, COME YOU MORE NEARER THAN YOUR PARTICULAR DEMANDS WILL TOUCH IT.

YES, MY LORD. AND FINDING BY THIS ENCOMPANY AND DRIFT OF QUESTION THAT THEY DO KNOW YOUR SON, COME YOU MAY SAY, NOT WELL MY LORD.

(2) Based on Homer, Poe and Iggy Pop running on a 2068.

THE CARNIVAL SEASON THAT PASSES

THE GRAZING GOLDFISH FOR A WIDGEON CALMLY GROANS. NO MAN CAN NOT HOP, AND NO MAN CAN NOT HOP, AND NO MAN EVER PRAISED THEE THAT GREASY TURNIPS SLOWLY MARCH, INDEED INFLATED IS QUITE AS CROOKED AS A BONE.

I GRIEVE THAT A WIDGEON CALMLY GROANS. NO MAN CAN THEE THAT A WIDGEON CALMLY GROANS. NO MAN EVER PRAISED THE CONVEY

Here is a note for ALL of you to CHECK YOUR DUE DATE ON YOUR MAILING LABEL!!! This is the date that your dues are DUE! We can collect dues at the Dec. meeting. If you become more than one month overdue, we will be forced to remove you from the mailing list (and library list). Please remember, I really HATE removing a name from the list! I really feel that our dues are reasonable when you consider all the benefits!

NOTE!!!

If you want a copy of the library tape, bring a recorder, a cable (NOT attenuating!), and a C-60 tape. We hope to be able to get 12 tapes made. There are approx. 50 2068 programs on this tape. Most are mighty good! DEAN MILLER

From:
THE GREATER CLEVELAND SINCLAIR USERS GROUP
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Rachel Carson



USA 17c



TO:

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87/05/16